JIACHENG LIANG

Curriculum Vitae

CONTACT

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Department of Mathematics, M5021 College of Science, Southern University of Science and Technology Xueyuan Avenue 1088 Shenzhen, Guangdong, China

RESEARCH INTERESTS

The orientation theory from Thom spectra, higher algebra, reformulations of chromatic homotopy theory by formal (spectral) algebraic geometry, spectral moduli problems, and various intersections between homotopy theory and algebraic geometry.

EDUCATION

Southern University of Science and Technology, Shenzhen, China 2022 – 2024(expected)

Master in Mathematics, expected June 2024

Advisor: Yifei Zhu

Sichuan University, Chengdu, Sichuan, China 2018 – 2022

B.S. in Physics

SHORT-TERM VISITS

Southern University of Science and Technology, Shenzhen, China 2021.11 – 2022.5

Visiting student Advisor: Yifei Zhu

SELECTED TALKS

The σ -orientation and its AHR E_{∞} -refinement $Mstring \to tmf$ August 17, 2023

IWoAT Summer School 2023: Operads, spectra, and multiplicative structures BIMSA, Beijing, China

Thom spectra, infinite loop spaces, generalized cocycles, and the σ-orientation May 23, 2023

Graduate Topology Seminar at SUSTech

Sites, Sheaves, Formal Groups and Stacks

December 06, 2022

Graduate Topology Seminar at SUSTech

Elliptic curves and Abelian varieties May 30, 2022

Undergraduate topology seminar, Sichuan University

Monads, E_{∞} -spectra and model categories December 01, 2021

Graduate Topology Seminar at SUSTech

The Stable homotopy theory and EKMM framework

November 18, 2021

Graduate Topology Seminar at SUSTech

Bousfield Localization and K(n)-local stable homotopy theory

March 22, 2021

Undergraduate topology seminar, Sichuan University

| Landweber exact theorem and Lubin-Tate spectra Undergraduate topology seminar, Sichuan University | November 02, 2020 |
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| Quillen's theorem: complex cobordism and formal groups Undergraduate topology seminar, Sichuan University | September 30, 2020 |
| MO is a graded E-M spectrum by calculating Steenrod operations Undergraduate topology seminar, Sichuan University | June 21, 2020 |
| Characteristic classes from viewpoint of algebraic topology Undergraduate topology seminar, Sichuan University | March 13, 2020 |
| Brown representability theorem and generalized cohomology theories Undergraduate topology seminar, Sichuan University | December 15, 2019 |
| Obstruction theory in algebraic topology Undergraduate topology seminar, Sichuan University | September 08, 2019 |
| Serre spectral sequence and homotopy groups of spheres Undergraduate topology seminar, Sichuan University | June 25, 2019 |
| A proof of Non-embeddability from Klein bottle into R ³ Undergraduate topology seminar, Sichuan University | May 8, 2019 |
| * Organization | |
| Graduate Topology Seminar at SUSTech | 2021-present |
| Undergraduate topology seminar at Sichuan University TEACHING | 2019-2022 |

TEACHING

- Teaching assistant for MA201b(Ordinary Differential Equation), Spring 2023.
- Grader for MAT8021, Spring 2023 (Algebraic topology).

MISCELLANEOUS

- Blog about algebraic topology: www.zhihu.com/people/liang-jia-cheng-60-11
- Placed third in Table Tennis Freshman Competition 2022 at department of mathematics, SUSTech

REFERENCES

- Guozhen Wang, Fudan University
- Yifei Zhu (advisor), Southern University of Science and Technology
- Zhen Huan, Huazhong University of Science and Technology